

## **107 D. (8) Mapping of S&T Needs of the State**

### **Objectives of STI mapping:**

To identify local-specific issues for STI interventions to support higher employment opportunities, better livelihood systems, and wealth creation for sustainable development under different agro-climatic zones to become a self-reliant state in the country.

### **STI for SDGs action plan six basic steps:**

1. Identify objectives and boundaries.
2. Evaluate the existing condition
3. Establish vision, aims and targets
4. Explore alternate routes
5. Develop integrated STI Guidelines for SDGs implementation
6. Plan implementation, monitoring, evaluation and update

### **Identified Key Sectors for Mapping of S&T needs of the state:**

Science and Technology mapping was taken up for some of the key sectors to address socio-technology challenges to foster socio-economic development. The work is based on a Literature review – Referred NITI-Aayog reports, State Planning Commission & UNDP reports, crucial articles & reports, and websites of the institute of eminence and higher learning. Meetings were held with Stakeholders, including officials and domain experts. The draft copy of the mapping of S&T needs in Karnataka is now available for discussion.

1. Agriculture, Horticulture and Sericulture
2. Animal Husbandry
3. Fisheries and Aquaculture
4. Water and Sanitation
5. Health
6. Education
7. Skill Development and Employment
8. Industries
9. Energy
10. Forest, Environment and Ecology
11. Housing, Infrastructure and Waste Management
12. Disaster Management

### **STI strategies:**

Following are the six major STI strategies.

- I. Developing an Innovation Ecosystem
- II. STI Initiatives for Employment and Financial Stability
- III. Improvements in Infrastructure and Human Resources
- IV. Ecologically Consistent Management of Natural Resources through R&D
- V. Sustainable & Eco-Friendly Technologies
- VI. Ensuring System for Scientific and Technological Output

### **Implementation of STI Strategies:**

1. The integration of the STI strategies with the government departments.

2. Compatibility of strategies with the SDGs for sustainable development.

**Way forward:**

The S&T needs of the Karnataka State have been prepared for the above-identified key sectors for relevant STI intervention to address the socio-economic challenges of the state.